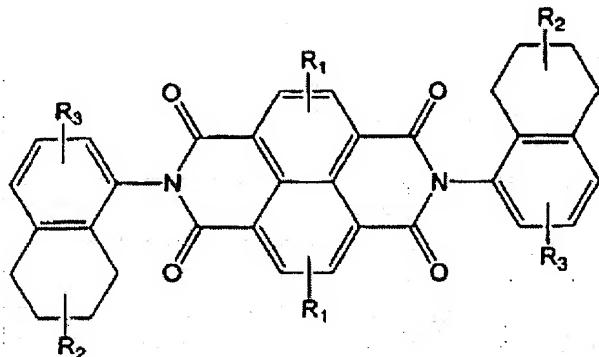


CLAIMS

What is claimed is:

1. A naphthalenetetracarboxylic acid diimide derivative represented by the following formula:

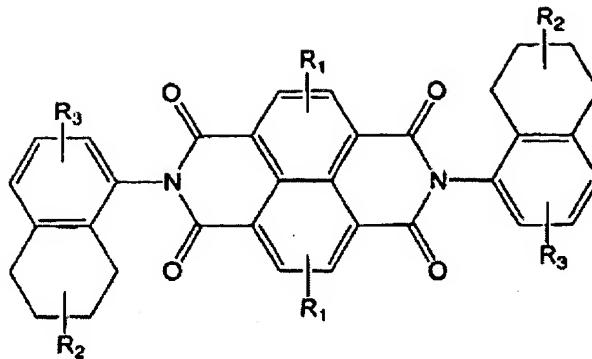


in which, R₁, R₂, and R₃ are each independently any one selected from the group consisting of hydrogen; halogen; substituted or unsubstituted alkyl of C₁ to C₂₀; substituted or unsubstituted alkoxy of C₁ to C₂₀; substituted or unsubstituted aryl of C₆ to C₃₀; and substituted or unsubstituted aralkyl of C₇ to C₃₀.

2. The naphthalenetetracarboxylic acid diimide derivative according to claim 1, wherein the substituted alkyl, substituted alkoxy and substituted aralkyl are independently substituted with any one selected from the group consisting of alkyl, aryl, halogen and alkoxy.

3. The naphthalenetetracarboxylic acid diimide derivative according to claim 1, wherein the substituted aryl is substituted with any one selected from the group consisting of alkyl, alkoxy, nitro and halogen.

4. An electrophotographic photoconductive material comprising a substrate and a photosensitive layer formed on the substrate, in which the photosensitive layer comprises a charge generating material and a charge transferring material, the charge transferring material is an electron transferring material and the electron transferring material comprises a naphthalenetetracarboxylic acid diimide derivative represented by the following formula:



in which, R₁, R₂, and R₃ are each independently any one selected from the group consisting of hydrogen; halogen; substituted or unsubstituted alkyl of C₁ to C₂₀; substituted or unsubstituted alkoxy of C₁ to C₂₀; substituted or unsubstituted aryl of C₆ to C₃₀; and substituted or unsubstituted aralkyl of C₇ to C₃₀.

5. The electrophotographic photoconductive material according to claim 4, wherein the substituted alkyl, substituted alkoxy and substituted aralkyl are independently substituted with any one selected from the group consisting of alkyl, aryl, halogen and alkoxy.

6. The electrophotographic photoconductive material according to claim 4, wherein the substituted aryl is substituted with any one selected from the group consisting of alkyl, alkoxy, nitro and halogen.

7. The electrophotographic photoconductive material according to claim 4, wherein the electrophotographic photoconductive material contains the electron transferring material of the above formula in a ratio of 20 wt% to 40 wt% based on the total solid components.

8. The electrophotographic photoconductive material according to claim 4, wherein the electrophotographic photoconductive material further comprises a hole transferring material.

9. The electrophotographic photoconductive material according to claim 4, wherein the photosensitive layer has a single-layer structure comprising the charge generating material and the charge transferring material dispersed in an binder resin.

10. The electrophotographic photoconductive material according to claim 4, wherein the photosensitive layer has a layered structure comprising a charge generating layer comprising the charge generating material and a charge transferring layer comprising the charge transferring material.

11. The electrophotographic photoconductive material according to claim 4, wherein the electrophotographic photoconductive material further comprises an electron acceptor.